

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below my name;

I believe I am an original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled " **Modified Carbon Adsorbents And Processes For Adsorption Using The Same,**" the specification of which [ ] is attached and/or [ x ] was filed as Serial No. 08/663,709 on June 14, 1996 and was amended on \_\_\_\_\_ (if applicable); or was filed as PCT International Application Number \_\_\_\_\_ on \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign applications for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

COUNTRY (If PCT indicate PCT)	APPLICATION NO.	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC §119
			<input type="checkbox"/> Yes <input type="checkbox"/> No
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			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing

*Declaration and Power of Attorney*

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date of the prior application(s) and the national or PCT international filing date of this application:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NO.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NO. ASSIGNED (if any)		

I hereby appoint Martha Ann Finnegan (Registration No. 31,453), Michelle B. Lando (Registration No. 33,941), Clair X. Mullen, Jr. (Registration No. 20,348) and Luke A. Kilyk (Registration No. 33,251) as my attorney with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith.

Please address all communications regarding this application to:

Martha Ann Finnegan, Esq.  
Cabot Corporation  
157 Concord Road  
Billerica, MA 01821

and direct all telephone calls to Martha Ann Finnegan at (508) 670-6198.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

Attorney  
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Inventor

Full Name

Date: \_\_\_\_\_

Residence

Post Office

Citizenship

Inventor

Full Name

Date: \_\_\_\_\_

Residence

Post Office

Citizenship

Inventor

Full Name

Date: \_\_\_\_\_

Residence

Post Office

Citizenship

Attorney Docket No. 96074

PATENT

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Signature: Ranjan Ghosal

Full Name of First Inventor: Ranjan Ghosal

Date: 15 August, 1996

Residence: 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106

Post Office Address: 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106

Citizenship: India

Inventor's Signature: \_\_\_\_\_

Full Name of Second Inventor: James A. Belmont

Date: \_\_\_\_\_ August, 1996

Residence: 8 Conant Street, Acton, Massachusetts 01720

Post Office Address: 8 Conant Street, Acton, Massachusetts 01720

Citizenship: United States of America

Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Douglas M. Smith

Date: \_\_\_\_\_ August, 1996

Residence: 1412 Marquette P1, NE, Albuquerque, New Mexico, 87106

Post Office Address: 1412 Marquette P1, NE, Albuquerque, New Mexico, 87106

Citizenship: United States of America

*Declaration and Power of Attorney*

- 3 -

Attorney:

Inventor:

Full Name:

Date:

Residence:

Post Office Address:

Citizenship:

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Attorney Docket No. 96074

PATENT

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Ranjan Ghosal

Date: \_\_\_\_ August, 1996

Residence: 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106

Post Office Address: 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106

Citizenship: India

Inventor's Signature: James A. Belmont

Full Name of Second Inventor: James A. Belmont

Date: 14 August, 1996

Residence: 8 Conant Street, Acton, Massachusetts 01720

Post Office Address: 8 Conant Street, Acton, Massachusetts 01720

Citizenship: United States of America

Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Douglas M. Smith

Date: \_\_\_\_ August, 1996

Residence: 1412 Marquette P1, NE, Albuquerque, New Mexico, 87106

Post Office Address: 1412 Marquette P1, NE, Albuquerque, New Mexico, 87106

Citizenship: United States of America

Declaration and Power of Attorney

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Date:

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Attorney Docket No. 96074

PATENT

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Ranjan Ghosal

Date: \_\_\_\_ August, 1996

Residence: 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106

Post Office Address: 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106

Citizenship: India

Inventor's Signature: \_\_\_\_\_

Full Name of Second Inventor: James A. Belmont

Date: \_\_\_\_ August, 1996

Residence: 8 Conant Street, Acton, Massachusetts 01720

Post Office Address: 8 Conant Street, Acton, Massachusetts 01720

Citizenship: United States of America

Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Douglas M. Smith

Date: 10 August, 1996

Residence: 1412 Marquette P1, NE, Albuquerque, New Mexico, 87106

Post Office Address: 1412 Marquette P1, NE, Albuquerque, New Mexico, 87106

Citizenship: United States of America

*Declaration and Power of Attorney*

Attorn

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Date:

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Citizen

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Attorney Docket No. 96074

PATENT

Апогне:

Inventor's Signature: James Minashi

Full Name of First Inventor: Jameel Menashi

Date: 14 August, 1996

Residence: 68 Gleason Road, Lexington, Massachusetts 02173

Post Office Address: 68 Gleason Road, Lexington, Massachusetts 02173

Citizenship: United States of America

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### *Declaration and Power of Attorney*

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Attorney Docket No. 96074

PATENT

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Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Jameel Menashi

Date: \_\_\_\_ August, 1996

Residence: 68 Gleason Road, Lexington, Massachusetts 02173

Post Office Address: 68 Gleason Road, Lexington, Massachusetts 02173

Citizenship: United States of America

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Martha Ann Finnegan, Esq.  
Cabot Corporation  
157 Concord Road  
Billerica, MA 01821

and direct all telephone calls to Martha Ann Finnegan at (508) 670-6198.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

Attorney:  
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Inventor:

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Attorney Docket No. 96074

PATENT

Inventor's Signature: \_\_\_\_\_

Full Name of First Inventor: Jameel Menashi

Date: \_\_\_\_ August, 1996

Residence: 68 Gleason Road, Lexington, Massachusetts 02173

Post Office Address: 68 Gleason Road, Lexington, Massachusetts 02173

Citizenship: United States of America

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*Declaration and Power of Attorney*

- 4 -

ASSIGNMENT

We, **Ranjan Ghosal**, citizen of India, residing at 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106; **James A. Belmont**, citizen of the United States of America, residing at 8 Conant Street, Acton, Massachusetts 01720; **Douglas M. Smith**, citizen of the United States of America, residing at 1412 Marquette P1, NE, Albuquerque, New Mexico 87106, and **Jameel Menashi**, citizen of the United States of America, residing at 68 Gleason Road, Lexington, Massachusetts 02173 respectively, having invented the subject matter described in U.S. Patent Application entitled "**Modified Carbon Adsorbents And Process For Adsorption Using The Same**", the specification of which was filed on June 14, 1996 in the United States Patent and Trademark Office, as Serial No. 08/663,709, for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, hereby sell, assign, and transfer to **Cabot Corporation**, a Delaware corporation, having a principal place of business at 75 State Street, Boston, Massachusetts 02109-1806, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States of America and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent and all rights in any applications therefor. We further sell, assign and transfer to **Cabot Corporation** all right, title, and interest in any and all corresponding divisional, renewal, substitute, and continuation applications, and all corresponding reexamination and reissue certificates.

We hereby represent and warrant that there are no rights or interests inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interest granted herein, and we, **Ranjan Ghosal, James A. Belmont, Douglas M. Smith and Jameel Menashi** bind ourselves and our respective heirs, executors, administrators and legal representatives, as the case may be, to execute and deliver to **Cabot Corporation**, its successors and assigns, any further documents or instruments and do any and all further acts that may reasonably be deemed necessary by **Cabot Corporation**, to enable **Cabot Corporation**, its successors or assigns to file applications for the invention in any country where it may elect to file such applications, and that may be necessary to vest in **Cabot Corporation**, its successors and assigns, the title herein conveyed or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

And we further covenant and agree, in consideration of the premises, that we and our respective heirs, executors administrators and legal representatives, as the case may be, will at any time, upon request, communicate to **Cabot Corporation**, its successors and assigns, any facts relating to the invention and the improvements contained therein and the history thereof, known to us or our respective heirs, executors, administrators and legal

representatives, as the case may be, and that we will testify as to the same in any interference or other litigation when requested so to do by Cabot Corporation, its successors and assigns.

IN TESTIMONY WHEREOF, I, Ranjan Ghosal, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
Ranjan Ghosal

STATE OF NEW MEXICO  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of August, 1996 before me personally appeared Ranjan Ghosal, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, James A. Belmont, has hereunto set my hand this 14<sup>th</sup> day of August, 1996.

James A. Belmont  
James A. Belmont

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this 14<sup>th</sup> day August, 1996 before me personally appeared James A. Belmont, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

Carmen Jalar  
NOTARY PUBLIC

My Commission Expires: 2/26/99

IN TESTIMONY WHEREOF, I, Douglas M. Smith, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
Douglas M. Smith

STATE OF NEW MEXICO  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of August, 1996 before me personally appeared Douglas M. Smith, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, Jameel Menashi, has hereunto set my hand this 14 day of August, 1996.

Jameel Menashi  
Jameel Menashi

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this 14 day of August, 1996 before me personally appeared Jameel Menashi, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

Carmen Falcon  
NOTARY PUBLIC  
My Commission Expires: 2/26/99

ASSIGNMENT

We, Ranjan Ghosal, citizen of India, residing at 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106; James A. Belmont, citizen of the United States of America, residing at 8 Conant Street, Acton, Massachusetts 01720; Douglas M. Smith, citizen of the United States of America, residing at 1412 Marquette P1, NE, Albuquerque, New Mexico 87106, and Jameel Menashi, citizen of the United States of America, residing at 68 Gleason Road, Lexington, Massachusetts 02173 respectively, having invented the subject matter described in U.S. Patent Application entitled "**Modified Carbon Adsorbents And Process For Adsorption Using The Same**", the specification of which was filed on June 14, 1996 in the United States Patent and Trademark Office, as Serial No. 08/663,709, for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, hereby sell, assign, and transfer to **Cabot Corporation**, a Delaware corporation, having a principal place of business at 75 State Street, Boston, Massachusetts 02109-1806, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States of America and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent and all rights in any applications therefor. We further sell, assign and transfer to **Cabot Corporation** all right, title, and interest in any and all corresponding divisional, renewal, substitute, and continuation applications, and all corresponding reexamination and reissue certificates.

We hereby represent and warrant that there are no rights or interests inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interest granted herein, and we, Ranjan Ghosal, James A. Belmont, Douglas M. Smith and Jameel Menashi bind ourselves and our respective heirs, executors, administrators and legal representatives, as the case may be, to execute and deliver to **Cabot Corporation**, its successors and assigns, any further documents or instruments and do any and all further acts that may reasonably be deemed necessary by **Cabot Corporation**, to enable **Cabot Corporation**, its successors or assigns to file applications for the invention in any country where it may elect to file such applications, and that may be necessary to vest in **Cabot Corporation**, its successors and assigns, the title herein conveyed or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

And we further covenant and agree, in consideration of the premises, that we and our respective heirs, executors administrators and legal representatives, as the case may be, will at any time, upon request, communicate to **Cabot Corporation**, its successors and assigns, any facts relating to the invention and the improvements contained therein and the history thereof, known to us or our respective heirs, executors, administrators and legal



representatives, as the case may be, and that we will testify as to the same in any interference or other litigation when requested so to do by Cabot Corporation, its successors and assigns.

IN TESTIMONY WHEREOF, I, Ranjan Ghosal, has hereunto set my hand this 15<sup>th</sup> day of August, 1996.

Ranjan Ghosal  
Ranjan Ghosal

STATE OF NEW MEXICO  
COUNTY OF Bernalillo

On this 15<sup>th</sup> day of August, 1996 before me personally appeared Ranjan Ghosal, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

[Signature]  
NOTARY PUBLIC  
My Commission Expires: 5/31/00

IN TESTIMONY WHEREOF, I, James A. Belmont, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
James A. Belmont

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this \_\_\_\_ day August, 1996 before me personally appeared James A. Belmont, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, Douglas M. Smith, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
Douglas M. Smith

STATE OF NEW MEXICO  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of August, 1996 before me personally appeared Douglas M. Smith, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, Jameel Menashi, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
Jameel Menashi

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this \_\_\_\_ day of August, 1996 before me personally appeared Jameel Menashi, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

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ASSIGNMENT

We, Ranjan Ghosal, citizen of India, residing at 1429 Columbia Drive, NE, Albuquerque, New Mexico 87106; James A. Belmont, citizen of the United States of America, residing at 8 Conant Street, Acton, Massachusetts 01720; Douglas M. Smith, citizen of the United States of America, residing at 1412 Marquette P1, NE, Albuquerque, New Mexico 87106, and Jameel Menashi, citizen of the United States of America, residing at 68 Gleason Road, Lexington, Massachusetts 02173 respectively, having invented the subject matter described in U.S. Patent Application entitled "Modified Carbon Adsorbents And Process For Adsorption Using The Same", the specification of which was filed on June 14, 1996 in the United States Patent and Trademark Office, as Serial No. 08/663,709, for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, hereby sell, assign, and transfer to Cabot Corporation, a Delaware corporation, having a principal place of business at 75 State Street, Boston, Massachusetts 02109-1806, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States of America and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent and all rights in any applications therefor. We further sell, assign and transfer to Cabot Corporation all right, title, and interest in any and all corresponding divisional, renewal, substitute, and continuation applications, and all corresponding reexamination and reissue certificates.

We hereby represent and warrant that there are no rights or interests inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interest granted herein, and we, Ranjan Ghosal, James A. Belmont, Douglas M. Smith and Jameel Menashi bind ourselves and our respective heirs, executors, administrators and legal representatives, as the case may be, to execute and deliver to Cabot Corporation, its successors and assigns, any further documents or instruments and do any and all further acts that may reasonably be deemed necessary by Cabot Corporation, to enable Cabot Corporation, its successors or assigns to file applications for the invention in any country where it may elect to file such applications, and that may be necessary to vest in Cabot Corporation, its successors and assigns, the title herein conveyed or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

And we further covenant and agree, in consideration of the premises, that we and our respective heirs, executors administrators and legal representatives, as the case may be, will at any time, upon request, communicate to Cabot Corporation, its successors and assigns, any facts relating to the invention and the improvements contained therein and the history thereof, known to us or our respective heirs, executors, administrators and legal

representatives, as the case may be, and that we will testify as to the same in any interference or other litigation when requested so to do by Cabot Corporation, its successors and assigns.

IN TESTIMONY WHEREOF, I, Ranjan Ghosal, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
Ranjan Ghosal

STATE OF NEW MEXICO  
COUNTY OF \_\_\_\_\_

On this \_\_\_\_ day of August, 1996 before me personally appeared Ranjan Ghosal, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, James A. Belmont, has hereunto set my hand this \_\_\_\_ day of August, 1996.

\_\_\_\_\_  
James A. Belmont

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this \_\_\_\_ day August, 1996 before me personally appeared James A. Belmont, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, Douglas M. Smith, has hereunto set my hand this 13 day of August, 1996.

Douglas M. Smith

STATE OF NEW MEXICO  
COUNTY OF BERNALILLO

On this 13 day of August, 1996 before me personally appeared Douglas M. Smith, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.



OFFICIAL SEAL  
DAVID L. GAONA  
NOTARY PUBLIC - STATE OF NEW MEXICO  
Notary Bond Filed With Secretary of State  
My Commission Expires 8-27-96

David L. Gaona  
NOTARY PUBLIC  
My Commission Expires:

IN TESTIMONY WHEREOF, I, Jameel Menashi, has hereunto set my hand this \_\_\_\_ day of August, 1996.

Jameel Menashi

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

On this \_\_\_\_ day of August, 1996 before me personally appeared Jameel Menashi, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the purpose therein set forth.

NOTARY PUBLIC  
My Commission Expires: